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1FW  
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re U.S. Patent No. 6,762,215	)	Serial No. 10/081,533
	)	
Inventor(s): Akira UDAGAWA <i>et al</i>	)	Filed: February 25, 2002
	)	
Issue Date: July 13, 2004	)	Attorney Docket No. 001458.00012

For: RADIATION-MODIFIED POLY (TETRAFLUOROETHYLENE) RESIN FEEDS AND A  
PROCESS FOR PRODUCING THE SAME

**PETITION UNDER 37 CFR 1.183 FOR CERTIFICATE OF CORRECTION**

U.S. Patent and Trademark Office  
Customer Service Window  
Randolph Building  
401 Dulany Street  
Alexandria, VA 22314

Sir:

Applicants hereby petition to correct the record to include a reference on the front cover of the above identified patent to correct the Assignee name from "Japan Atomic Energy Research" to --Japan Atomic Energy Research Institute--.

The original Assignment was recorded on February 25, 2002, to Japan Atomic Energy Research Institute, at Reel 012644, Frame 0692. A copy of the Notice of Recordation of Assignment Document is enclosed.

Two (2) copies of PTO Form 1050 are appended. The complete Certificate of Correction involves one page. The Patent and Trademark Office is authorized to charge our Deposit Account No. 19-0733 for \$130 for this petition as set forth in 37 CFR 1.117 (h), and for any additional fees required.

04/21/2005 JADD01 00000079 190733 6762215  
01 FC:1464 130.00 DA

Respectfully submitted,

BANNER & WITCOFF, LTD.

Dated: April 20, 2005

By: William J. Fisher  
William J. Fisher  
Reg. No. 32,133

1001 G Street, N.W. (11th Fl.)  
Washington, D.C. 20001  
202-824-3000

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO.: 6,762,215  
DATED: July 13, 2004  
INVENTOR(S): Akira UDAGAWA *et al*

It is certified that an error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the Cover Page, Assignee section (73):

Please replace "Japan Atomic Energy Research" with --Japan Atomic Energy Research Institute--

Mailing Address of Sender:

Banner & Witcoff, Ltd.  
11th Floor  
1001 G Street, N.W.  
Washington, DC 20001-4597

U.S. PAT. NO 6,762,215

No. of add'l copies  
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UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

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UNITED STATES  
PATENT AND  
TRADEMARK OFFICE



WIF

MAY 02, 2002

PTAS

Commissioner for Trademarks  
Arlington, VA 22202-3513  
www.uspto.gov

BANNER & WITCOFF, LTD.  
WILLIAM J. FISHER  
1001 G STREET, NW.  
SUITE 1100  
WASHINGTON, DC 20001-4597

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MAY 07 2002



\*102008823A\*

BANNER AND WITCOFF

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 02/25/2002

REEL/FRAME: 012644/0692  
NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
UDAGAWA, AKIRA

DOC DATE: 02/14/2002

ASSIGNOR:  
OSHIMA, AKIHIRO

DOC DATE: 02/14/2002

ASSIGNEE:  
JAPAN ATOMIC ENERGY RESEARCH  
INSTITUTE  
2-2, UCHISAIWAI-CHO 2-CHOME,  
CHIYODA-KU  
TOKYO, JAPAN

SERIAL NUMBER: 10081533  
PATENT NUMBER:

FILING DATE: 02/25/2002  
ISSUE DATE:

001458.00012  
DOCKETED rgc  
Notice of Recordation  
MAY 07 2002  
Recd.

012644/0692 PAGE 2

THERESA FREDERICK, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re U.S. Patent No. 6,762,215	)	Serial No. 10/081,533
	)	
Inventor(s): Akira UDAGAWA <i>et al</i>	)	Filed: February 25, 2002
	)	
Issue Date: July 13, 2004	)	Attorney Docket No. 001458.00012

For: RADIATION-MODIFIED POLY (TETRAFLUOROETHYLENE) RESIN FEEDS AND A  
PROCESS FOR PRODUCING THE SAME

**REQUEST FOR CERTIFICATE OF CORRECTION**

U.S. Patent and Trademark Office  
Customer Service Window  
Randolph Building, Mail Stop: Certificate of Correction Branch  
401 Dulany Street  
Alexandria, VA 22314

Sir:

Pursuant to 35 U.S.C. § 254 and 37 C.F.R. § 1.322, this is a request for the issuance of a Certificate of Correction in the above-identified patent. Two (2) copies of PTO Form 1050 are appended. The complete Certificate of Correction involves one page.

The mistakes identified in the appended Form occurred through no fault of the Applicants, as clearly disclosed by the records of the application, which matured into this patent. Enclosed for your convenience are the relevant portions of the Examiner's Amendment, included with the Notice of Allowance dated March 2, 2004, and the Preliminary Amendment filed February 25, 2002.

Issuance of the Certificate of Correction containing the corrections is respectfully requested. Since these changes are necessitated through no fault of the Applicants, no fee is believed to be associated with this request. Nonetheless, should the Patent and Trademark Office determine that a fee is required, please charge our Deposit Account No. 19-0733.

Respectfully submitted,

BANNER & WITCOFF, LTD.

Dated: April 20, 2005

1001 G Street, N.W. (11th Fl.)  
Washington, D.C. 20001  
(202) 824-3000

By: William J. Fisher  
William J. Fisher  
Registration No. 32,133

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO.: 6,672,215  
DATED: February 25, 2002  
INVENTOR(S): Akira UDAGAWA *et al*

It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Column 6, Claim 1, Line 39:

Please replace "temperature 30" with --temperature between 30--

In Column 6, Claim 4, Line 50:

Please replace "claim" with --claim 3--

Mailing Address of Sender:

Banner & Witcoff, Ltd.  
11th Floor  
1001 G Street, N.W.  
Washington, DC 20001-4597

U.S. PAT. NO 6,762,215

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001458-00012  
UNITED STATES PATENT AND TRADEMARK OFFICE

DUCKETED SU

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

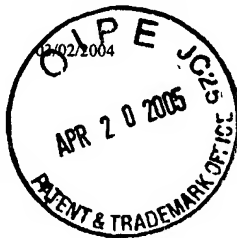
MAR 4 2004

If, Pub fee &amp; PTA due: 6.2.04

## NOTICE OF ALLOWANCE AND FEE(S) DUE

22907

7590

BANNER & WITCOFF  
1001 G STREET N W  
SUITE 1100  
WASHINGTON, DC 20001

RECEIVED

MAR 04 2004

BANNER &amp; WITCOFF

EXAMINER

BERMAN, SUSAN W

ART UNIT

PAPER NUMBER

1711

DATE MAILED: 03/02/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/081,533	02/25/2002	Akira Udagawa	001458.00012	1051

TITLE OF INVENTION: RADIATION-MODIFIED POLY (TETRAFLUOROETHYLENE) RESIN FEEDS AND A PROCESS FOR PRODUCING THE SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	06/02/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. **PROSECUTION ON THE MERITS IS CLOSED.** THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. **THIS STATUTORY PERIOD CANNOT BE EXTENDED.** SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

## HOW TO REPLY TO THIS NOTICE:

## I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

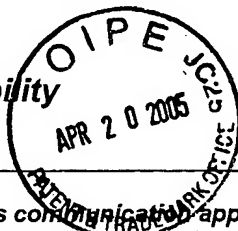
B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

☐ Applicant claims SMALL ENTITY status.  
See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

**IMPORTANT REMINDER:** Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

**Notice of Allowability**

Application No.

10/081,533

Examiner

Susan W Berman

Applicant(s)

UDAGAWA ET AL.

Art Unit

1711

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Election filed 12-05-03.
2. ☒ The allowed claim(s) is/are 4,5 and 9-22.
3. ☒ The drawings filed on 25 February 2002 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

Susan W Berman  
Primary Examiner  
Art Unit: 1711

Art Unit: 1711

*Election/Restrictions*

Applicant's election without traverse of Group II in Paper No. submitted 12-05-2003 is acknowledged.

**EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with William Fisher on February 23, 2004.

The application has been amended as follows:

Cancel claims 1-3.

In claim 4, line 5,, delete "room" and insert therefor -- a -- and after "temperature" insert between -- 30 and 50 °C --.

**REASONS FOR ALLOWANCE**

The following is an examiner's statement of reasons for allowance: The instantly claimed method for producing a radiation-modified poly(tetrafluoroethylene), "PTFE", resin feed from unsintered poly(tetrafluoroethylene) is distinguished from the prior art known to the examiner by treatment with ionizing radiation in an absorbed dose of no more than 1,000Gy in air and within the recited temperature range. The cited prior art also fails to mention lowering the melting point without changing the quantities of heat of fusion and heat of crystallization, as set forth in the instant claims.

001458.00012

☒ PATENT ☐ DESIGN B&W Ref.: 001458.00012

RETURN WHEN SERIAL NUMBER IS ASSIGNED TO APPLICATION

USPTO: Please return this card, indicating receipt date and Application Serial No. of the following patent application:

Applicant(s): AKIRA UDAGAWA and AKIHIRO OSHIMA

Title: RADIATION-MODIFIED POLY(TETRAFLUOROETHYLENE)  
Resin Feeds and a Process for Producing the Same

Filing Date: February 25, 2002

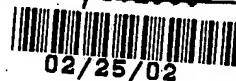
127US

Client: Yuasa and Hara

Client Ref.: CH:CS:KMR, FPN-3-527US

Attorney/Secretary: WJF/gpd

1046 U.S. PTO  
10/081533



☒ PATENT ☐ DESIGN B&W Ref. 001458.00012 Date 2-25-02

☐ HAND CARRY Group/Section Bldg Rm

Serial/Patent No. TBA Atty/Sec WJF/gpd

Inventor AKIRA UDAGAWA, et al. Client Yuasa and Hara

Title: RADIATION-MODIFIED POLY(TETRAFLUOROETHYLENE) RESIN FEEDS AND A  
PROCESS FOR PRODUCING THE SAME

The following has been received in the U.S. Patent and Trademark Office on the date stamped hereon:

☒ 16 total pp Spec., including: # of Claims 19

(# of independent claims 2); ☒ Abstract

☒ Drawings: ☐ Formal ☐ Informal  
# of distinct sheets 1: Figs. 2

☒ Declaration/Power of Attorney: ☒ Executed ☐ Unexecuted

☒ Assignment w/PTO Cover Sheet

☐ IDS w/PTO 1449 ☐ References ☐ w/Fee

☒ Preliminary Amendment

☒ Priority Claim (Foreign or U.S. Provisional B&W #)

Japan 2001-053496 2/28/01  
Country Appl. # Date

☒ w/Foreign Priority Document(s)

☐ Application: ☐ CIP ☐ Continuation ☐ Divisional  
Parent Ser. No. B&W#

☐ U.S. Provisional pp Spec/Claims: Cover Sheet

☐ Response to Missing Parts/Requirements dtd

☐ Response to Notice to File Corrected Appl. Papers dtd

☐ Request for Expedited Foreign Filing License

☐ Request for Corrected: ☐ Filing Receipt ☐ Assignment

☐ Response to Restriction/Election Requirement

☐ Sequence Listing: ☐ Diskette ☐ Paper

☐ Amendment ☐ Response: OA dtd

☐ Petition for Extension of Time until

☐ CPA ☐ RCE ☐ w/Ext of Time: OA dtd

☐ Request for Approval of Drawing Changes

☐ Notice of Appeal & Fee

☐ Brief: ☐ Appeal & Fee ☐ Reply

☐ Request for Oral Hearing

☐ Issue Fee ☐ Advance Patent Copies (# ordered)

Notice of Allowance dtd

☐ Amendment under 37 CFR 1.312

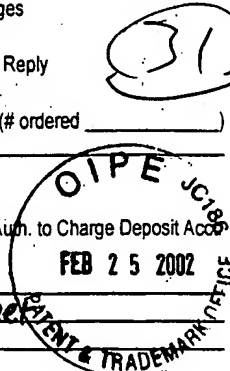
☐ Request for Certificate of Correction

☒ Transmittal ☒ Fee Transmittal w/Auth. to Charge Deposit Acct

☐ Certificate of Mailing

☐ Check # for \$

☒ Application Data Sheet



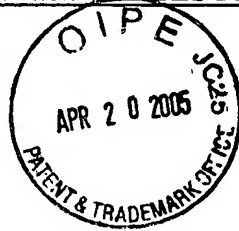
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re APPLICATION OF:

Akira UDAGAWA, *et al.*

SERIAL NO.: TBA

FILED: February 25, 2002



) ATTY DKT NO. 01458.00012

) ATTN BOX PATENT  
) APPLICATIONS) FOR: RADIATION-MODIFIED POLY (TETRAFLUOROETHYLENE) RESIN FEEDS AND A  
) PROCESS FOR PRODUCING THE SAMEPRELIMINARY AMENDMENTAssistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

Please amend the above-identified new application as follows.

IN THE SPECIFICATION

Page 1, following the title, please add the following new paragraph;

--This application is based upon and claims the benefit of priority from Japanese Patent Application No. 2001-053495, filed February 28, 2001, the entire contents of this application are incorporated herein by reference--.

IN THE CLAIMS

Please delete Claims 6-8 and insert the following Claims therein:

- 9. The process according to claim 4, wherein the ionizing radiation is selected from electron beams, x-rays,  $\gamma$ -rays, neutron beams and high-energy ions which are used either independently or in admixture.
10. The process according to claim 5, wherein the ionizing radiation is selected from electron beams, x-rays,  $\gamma$ -rays, neutron beams and high-energy ions which are used either independently or in admixture.
11. The process according to claim 4, wherein the poly (tetrafluoroethylene) resin feed is in powder form.
12. The process according to claim 5, wherein the poly (tetrafluoroethylene) resin feed is in powder

form.

13. The process according to claim 9, wherein the poly (tetrafluoroethylene) resin feed is in powder form.

14. The process according to claim 10, wherein the poly (tetrafluoroethylene) resin feed is in powder form.

15. The process according to claim 4, wherein the poly (tetrafluoroethylene) resin feed is a dried powder of poly (tetrafluoroethylene) resin obtained by emulsion polymerization or suspension polymerization, which is optionally granulated or dispersed uniformly in solvents or wetted with solvents.

16. The process according to claim 5, wherein the poly (tetrafluoroethylene) resin feed is a dried powder of poly (tetrafluoroethylene) resin obtained by emulsion polymerization or suspension polymerization, which is optionally granulated or dispersed uniformly in solvents or wetted with solvents.

17. The process according to claim 9, wherein the poly (tetrafluoroethylene) resin feed is a dried powder of poly (tetrafluoroethylene) resin obtained by emulsion polymerization or suspension polymerization, which is optionally granulated or dispersed uniformly in solvents or wetted with solvents.

18. The process according to claim 10, wherein the poly (tetrafluoroethylene) resin feed is a dried powder of poly (tetrafluoroethylene) resin obtained by emulsion polymerization or suspension polymerization, which is optionally granulated or dispersed uniformly in solvents or wetted with solvents.

19. The process according to claim 11, wherein the poly (tetrafluoroethylene) resin feed is a dried powder of poly (tetrafluoroethylene) resin obtained by emulsion polymerization or suspension polymerization, which is optionally granulated or dispersed uniformly in solvents or wetted with solvents.

20. The process according to claim 12, wherein the poly (tetrafluoroethylene) resin feed is a dried powder of poly (tetrafluoroethylene) resin obtained by emulsion polymerization or suspension polymerization, which is optionally granulated or dispersed uniformly in solvents or wetted with